

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Original): A method for manufacturing a magnetic garnet single crystal, comprising the steps of:

adding 1~3% by weight of an alkali metal oxide or carbide to a mixture of garnet single crystal raw materials and Bi_2O_3 - B_2O_3 - PbO as a flux, and melting the resulting mixture; and
growing a garnet single crystal from the melt by liquid phase epitaxy.

Claim 2 (Original): The method according to claim 1, wherein the alkali metal oxide or carbide is selected from oxides and carbides of lithium, sodium, potassium and rubidium.

Claim 3 (Currently Amended): The method according to claim 1 ~~or 2~~, wherein the magnetic garnet single crystal has a composition represented by the formula $\text{Bi}_a\text{Pb}_b\text{Y}_c\text{Gd}_{3-(a+b+c)}\text{Pt}_d\text{Fe}_{5-d}\text{O}_{12}$ (in which $0.5 \leq a \leq 1.0$, $0 \leq b \leq 1.0$, $0.3 \leq c \leq 1.0$ and $0 \leq d \leq 1.0$).

Claim 4 (Currently Amended): A magnetic garnet single crystal having a composition represented by the formula $\text{Bi}_a\text{Pb}_b\text{Y}_c\text{Gd}_{3-(a+b+c)}\text{Pt}_d\text{Fe}_{5-d}\text{O}_{12}$ (in which $0.5 \leq a \leq 1.0$, $0 \leq b \leq 1.0$, $0.3 \leq c \leq 1.0$ and $0 \leq d \leq 1.0$), manufactured by the method according to claim 1 ~~or 2~~.

Claim 5 (Original): An optical current transducer (CT) comprising the magnetic garnet single crystal according to claim 4.